DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

OFFICE OF DESIGN POLICY & SUPPORT
INTERDEPARTMENTAL CORRESPONDENCE

FILE P.I. # 0013819
Barrow and Jackson Counties
GDOT District 1 - Gainesville
SR 82 @ Middle Oconee River 5 Miles
NE of Statham - Bridge Replacement

OFFICE Design Policy & Support

DATE 4/6/2018

FROM for Brent Story, State Design Policy Engineer

TO SEE DISTRIBUTION

SUBJECT **APPROVED CONCEPT REPORT**

Attached is the approved Concept Report for the above subject project.

Attachment

DISTRIBUTION:

Hiral Patel, Director of Engineering
Joe Carpenter, Director of P3
Albert Shelby, Director of Program Delivery
Darryl VanMeter, Assistant Director of P3/State Innovative Delivery Administrator
Kim Nesbitt, Program Delivery Administrator
Bobby Hilliard, Program Control Administrator
Cindy VanDyke, State Transportation Planning Administrator
Eric Duff, State Environmental Administrator
Bill DuVall, State Bridge Engineer
Andrew Heath, State Traffic Engineer
Angela Robinson, Financial Management Administrator
Lisa Myers, State Project Review Engineer
Monica Flournoy, State Materials Engineer
Patrick Allen, State Utilities Engineer
Benny Walden, Statewide Location Bureau Chief
Brent Cook, District Engineer
Brandon Kirby, District Preconstruction Engineer
Robby Oliver, District Utilities Manager
Jeff Henry, Project Manager
BOARD MEMBER 9th and 10th Congressional Districts

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
LIMITED SCOPE PROJECT CONCEPT REPORT

Project Type: Bridge Replacement
P.I. Number: 0013819
GDOT District: 1
County: Barrow/Jackson
Federal Route Number: N/A
State Route Number: 82
Project Number: N/A

This project consists of replacing the existing bridge on SR 82 over Middle Oconee River, 5 miles NE of Statham.

Submitted for approval:

Chris Marsengill — 3/12/2018
R. Christopher Marsengill, PE, PTOE, Moffatt & Nichol — Date

Kimberly W. Nesbitt — 2/15/18
State Program Delivery Engineer — Date

SHP — 2/15/2018
GDOT Project Manager — Date

Recommendation for approval:

*Brandon Kirby/AT — 2/23/2018
District Preconstruction Engineer — Date

*Eric Duff/AT — 3/13/2018
State Environmental Administrator — Date

*Christina D. Barry/AT — 3/1/2018
for State Traffic Engineer — Date

*Bill DuVall/AT — 3/3/2018
State Bridge Engineer — Date

☒ MPO Area: This project is consistent with the MPO adopted Regional Transportation Plan (RTP)/Long Range Transportation Plan (LRTP).

☐ Rural Area: This project is consistent with the goals outlined in the Statewide Transportation Plan (SWTP) and/or is included in the State Transportation Improvement Program (STIP).

*Cynthia L. VanDyke/AT — 2/27/2018
State Transportation Planning Administrator — Date

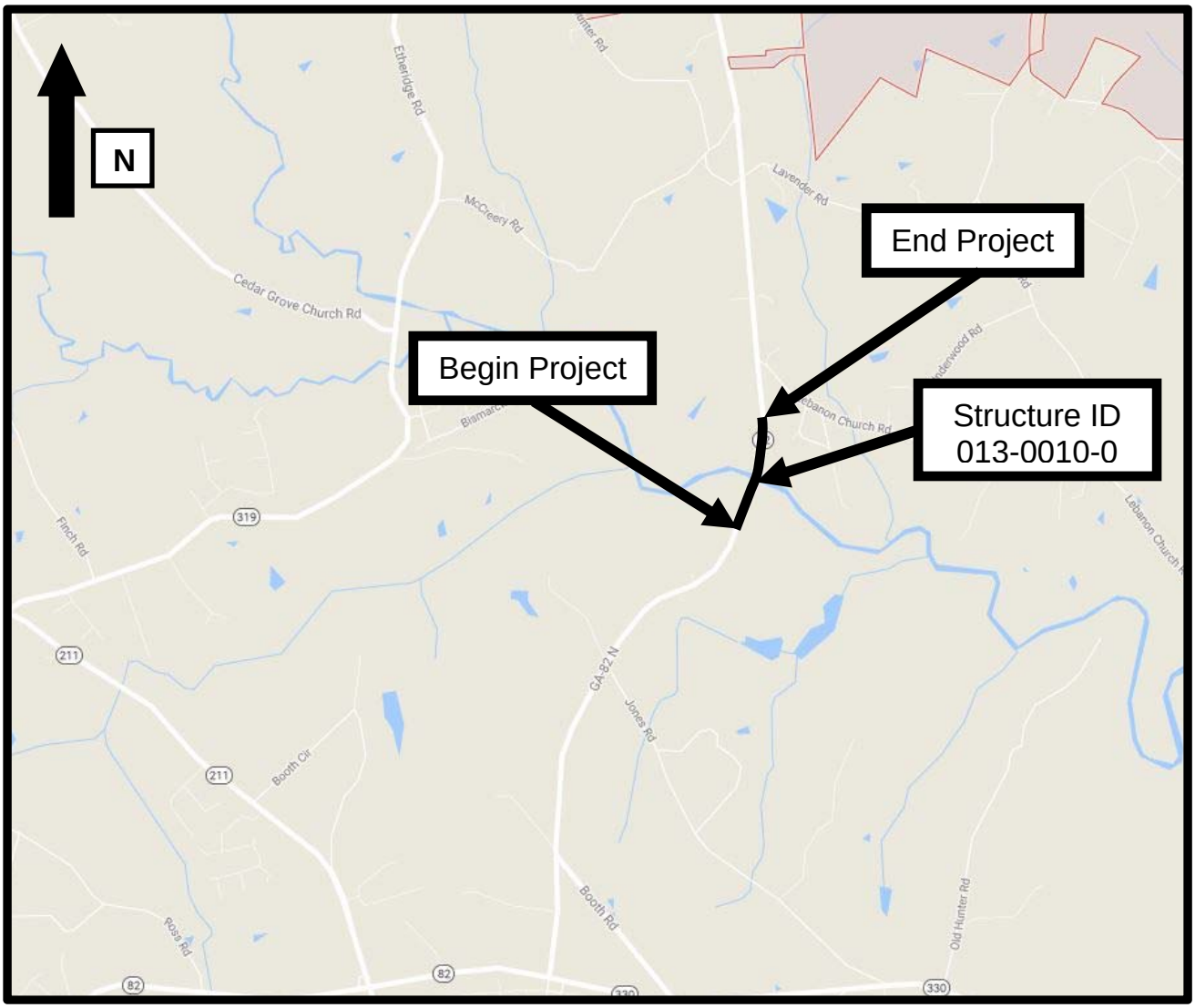
Approval:

Concur: — 3/26/16
GDOT Director of Engineering — Date

Approve: Margaret B. Pirkle — 3/28/18
GDOT Chief Engineer — Date

*Recommendations on File

PROJECT LOCATION



Not to Scale

PLANNING & BACKGROUND DATA

Project Justification Statement: The bridge on SR 82 over the Middle Oconee River, Structure ID 013-0010-0, was built in 1967. This bridge consists of four (4) spans of steel beams on concrete caps with steel H-pile bents and a concrete column bent. This bridge was designed using an H-15 vehicle which is below current design standards, and it is posted for weight restrictions. The overall condition of this bridge would be classified as fair. The deck is in fair condition with moderate cracking, heavy scaling, and spalls with exposed rebar. The superstructure is in fair condition with corrosion on the steel beams and moderate deflection in all spans. The substructure is in satisfactory condition with cracking and spalling in the abutment caps and minor rust building on the steel H-piles. This bridge is classified as having an unknown foundation and therefore could be at risk for scour. Due to the structural integrity of the bridge pertaining to the design vehicle, the weight restrictions of the bridge, and the unknown foundation in the substructure, replacement of this 50-year-old bridge is recommended.

Existing conditions: SR 82 is a 2-lane rural highway with 11-foot travel lanes and approximately 4-foot shoulders (1-foot paved). The existing bridge is approximately 252-feet long with four spans and has 11-foot travel lanes with 2-foot shoulders

Other projects in the area: The proposed project is not associated with any other construction project in the area.

MPO: Atlanta Regional Commission (ARC) Not Urban **TIP #:** BA-032

Congressional District(s): 9 &10

Federal Oversight: ☒ Exempt ☐ State Funded ☐ Other

Projected Traffic: AADT 24 HR T: 7.0%
Current Year (2017): 3,100 Open Year (2022): 3,425 Design Year (2042): 5,100
Traffic Projections Performed by: Moffatt & Nichol
Date approved by the GDOT Office of Planning: February 20, 2018

Functional Classification (Mainline): Rural Major Collector

Complete Streets - Bicycle, Pedestrian, and/or Transit Standards Warrants:
Warrants met: ☒ None ☐ Bicycle ☐ Pedestrian ☐ Transit

Pavement Evaluation and Recommendations

Preliminary Pavement Evaluation Summary Report Required?	☒ No	☐ Yes
Preliminary Pavement Type Selection Report Required?	☒ No	☐ Yes
Feasible Pavement Alternatives:	☒ HMA ☐ PCC	☐ HMA & PCC

DESIGN AND STRUCTURAL

Description of Proposed Project: The SR 82 project will replace the existing bridge over the Middle Oconee River to improve the structural integrity and hydraulic opening of the bridge. The proposed bridge will be 320-feet long with two 12-foot wide lanes and 8-foot wide shoulders. The overall project length is approximately 0.15 miles. Roadway improvements will be necessary at the bridge approaches to create a smooth transition to the proposed bridge.

Major Structures:

Structure ID	Existing	Proposed
013-0010-0	252-foot long by 32-foot wide, 4-span, two 11-foot lanes and 2-foot shoulders, sufficiency rating of 48.9	Permanent Bridge – 320-ft long by 43-foot wide (4 spans), two 12-foot lanes and 8-foot shoulders

Mainline Design Features: SR 82

Feature	Existing	Policy*	Proposed
Typical Section			
• Number of Lanes	2		2
• **Lane Width(s)**	**11'**	**11' to 12'**	**12'**
• **Median Width & Type**	**n/a**	**n/a**	**n/a**
• **Outside Shoulder (Paved)**	**4'**	**10' (6'-6")**	**10' (6'-6")**
• **Outside Shoulder Slope**	**8%**	**6%**	**6%**
• **Outside Shoulder Width (Bridge)**	**2'**	**8'**	**8'**
Posted Speed	55 MPH		55 MPH
Design Speed	**55 MPH**	**55 MPH**	**55 MPH**
Min Horizontal Curve Radius	**960'**	**960'**	**1470'**
Maximum Superelevation Rate	**3%**	**8%**	**7.2%**
Maximum Grade	**7.25%**	**8%**	**7%**
Access Control	**Permitted**	**Permitted**	**Permitted**
Design Vehicle	WB-40/H-15		WB-67/HL-93
Pavement Type	Asphalt		Asphalt

*According to current GDOT design policy if applicable

Is the project located on a NHS roadway? ☒ No ☐ Yes

Design Exceptions/Design Variances to GDOT and/or FHWA Controlling Criteria anticipated: None

Design Variances to GDOT Standard Criteria anticipated: None

Lighting required: ☒ No ☐ Yes

Off-site Detours Anticipated: ☐ No ☐ Undetermined ☒ Yes

Transportation Management Plan [TMP] Required: ☐ No ☒ Yes
If Yes: Project classified as: ☒ Non-Significant ☐ Significant
TMP Components Anticipated: ☒ TTC ☐ TO ☐ PI

Accelerated Bridge Construction (ABC) Techniques: The existing structurally deficient bridge will be replaced and widened to meet current design loading and shoulder width requirements. To reduce traffic impacts and onsite construction time, potential ABC techniques being considered include:

- Use of an off-site detour
- Partial-depth precast deck panels
- Use of prefabricated concrete columns and/or bent caps

Per detour feedback, local schools and emergency vehicles will not be impacted by the detour. The only concern from local officials is to provide proper signage and enforcement to keep trucks from using Etheridge Road, which has weight restrictions.

INTERCHANGES AND INTERSECTIONS

Major Interchanges/Intersections: None

Intersection Control Evaluation (ICE) Required: ☒ No ☐ Yes

Roundabout Peer Review Required: ☒ No ☐ Yes

UTILITY AND PROPERTY

Railroad Involvement: No

Utility Involvements:

- Atlanta Gas Light Athens
- Barrow County WSA
- Comcast CATV
- AT&T
- Jackson EMC

SUE Required: ☒ No ☐ Yes

Public Interest Determination Policy and Procedure recommended? ☒ No ☐ Yes

Right-of-Way: Existing width: 70 ft. Proposed width: 80 to 110 ft.
Required Right-of-Way anticipated: ☐ No ☒ Yes ☐ Undetermined

Easements anticipated: ☐ None ☒ Temporary ☒ Permanent ☐ Utility ☐ Other

Anticipated total number of impacted parcels: 6
Displacements anticipated: Businesses: 0
Residences: 0
Other: 0
Total Displacements: 0

Impacts to USACE property anticipated? ☒ No ☐ Yes ☐ Undetermined

CONTEXT SENSITIVE SOLUTIONS

Issues of Concern: None

Context Sensitive Solutions Proposed: None

ENVIRONMENTAL AND PERMITS

Anticipated Environmental Document:

NEPA: ☐ PCE ☒ CE ☐ EA-FONSI
GEPA: ☐ Type A ☐ Type B ☐ None

Level of Environmental Analysis:

☒ The environmental considerations noted below are based on preliminary desktop or screening level environmental analysis and are subject to revision after the completion of resource identification, delineation, and agency concurrence.

☐ The environmental considerations noted below are based on the completion of resource identification, delineation, and agency concurrence.

Water Quality Requirements:

MS4 Compliance – Is the project located in an MS4 area? ☐ No ☒ Yes

Is Non-MS4 water quality mitigation anticipated? ☒ No ☐ Yes

Environmental Permits, Variances, Commitments, and Coordination anticipated: Pending

Air Quality:

Is the project located in an Ozone Non-attainment area? ☒ No ☐ Yes
Carbon Monoxide hotspot analysis: ☒ No ☐ Yes

NEPA/GEPA Comments & Information:

- Early coordination submitted to both GADNR and USFWS.
- An aquatic survey is anticipated based on state listed aquatic species in the project area. Aquatic survey season begins April 30th.
- Do not anticipate any survey being required for federally protected plant species as it does not appear suitable habitat is present within project area. However, if known occurrences of any protected plant species are documented near the project area when coordination is returned from agencies, then a terrestrial protected species survey may be required.
- Field survey will be conducted once coordination is received back from agencies.

History:

- Field survey complete. HRSR to GDOT 3/15/2018
  - Two potential properties
  - One is bridge, and eligibility is questionable

Public Involvement: A Detour Information Open House is anticipated for the off-site detour.

COORDINATION, ACTIVITIES, RESPONSIBILITIES, AND COSTS

Is Federal Aviation Administration (FAA) coordination anticipated? ☒ No ☐ Yes

Project Meetings:

- December 4, 2017 – Concept Alternatives Review Meeting
- January 16, 2018 – Concept Team Meeting (minutes attached)

Other coordination to date:

- Early coordination with USFWS who noted that there is a USGS stream gauge attached to the bridge (gauge 02217475 Middle Oconee River near Arcade). Need to coordinate any requests relative to replacement and recalibration of gauge.

Project Activity	Party Responsible for Performing Task(s)
Concept Development	Moffatt & Nichol
Design	Moffatt & Nichol
Right-of-Way Acquisition	GDOT
Utility Coordination (Preconstruction)	GDOT
Utility Relocation (Construction)	Utility Owners
Letting to Contract	GDOT
Construction Supervision	GDOT
Providing Material Pits	Contractor

Providing Detours	Contractor
Environmental Studies, Documents, & Permits	Atkins, VHB and Ecological Solutions
Environmental Mitigation	GDOT
Construction Inspection & Materials Testing	GDOT

Project Cost Estimate and Funding Responsibilities:

	PE Activities					
	PE Funding	**Section 404 Mitigation**	**ROW****	**Reimbursable Utilities**	**CST***	**Total Cost**
Funded By	Federal/State	Federal/State	Federal/State	Federal/State	Federal/State	
$ Amount	$500,000	$30,000	TBD	$44,000	$3,374,319	$3,948,319
Date of Estimate	3/7/16	3/16/18	Requested 11/08/17	1/29/18	3/22/18	

*CST Cost includes: Construction, Engineering and Inspection, Contingencies and Liquid AC Cost Adjustment.

**Date of Concept Right of Way Estimate Request: November 8, 2017
Total cost does not include ROW estimate

ALTERNATIVES DISCUSSION

Alternative 1 – Preferred Alternative			
Estimated Property Impacts:	6	**Estimated Total Cost:**	$3,948,319
Estimated ROW Cost:	TBD*	**Estimated CST Time:**	12 months
Rationale: This alternative is preferred because of the increased constructability of the project due to the use of an off-site detour with a net length of 7.8 miles. The recommended off-site detour, which is located to the east of the project, is a signed state route detour and the bridge along this route is not posted for weight restrictions. The original recommended detour was located to the west of the project and concerns were stated in the detour responses from the County Manager that the route was located on a local road with weight restrictions on the bridge, deeming it a non-viable detour route. This alternative also has the least amount of property impacts and has a lower project cost than Alternatives 2 and 3. There is no proposed temporary pavement or temporary bridge, which will allow for the bridge to be constructed in significantly less time with fewer property impacts. Estimated Utility Cost = $44,000			

*****To be updated upon receipt of estimate from GDOT Office of ROW.

No-Build Alternative			
Estimated Property Impacts:	0	**Estimated Total Cost:**	0
Estimated ROW Cost:	0	**Estimated CST Time:**	0
Rationale: This alternative was rejected because it does not achieve the improved structural integrity of the existing bridge as required.			

Alternative 2: New parallel bridge location west of the existing bridge. This alternative proposes to replace the existing bridge by constructing a new bridge west of the existing bridge. This alternative eliminates the horizontal curve and superelevation on the proposed bridge.			
Estimated Property Impacts:	9	**Estimated Total Cost:**	$5,602,160
Estimated ROW Cost:	TBD*	**Estimated CST Time:**	18 months

aT

Rationale: This alternative is not preferred because of the higher project cost due to the construction of the realigned SR 82. This alternative will also increase the project limits by approximately 0.50 miles, which increases the amount right-of way required, property impacts, environmental impacts and construction time. Estimated Utility Cost = $44,000

***To be updated upon receipt of estimate from GDOT Office of ROW.

Alternative 3: New parallel bridge location east of the existing bridge. This alternative proposes to replace the existing bridge by construction of a new bridge east of the existing bridge.			
Estimated Property Impacts:	10	**Estimated Total Cost:**	$5,099,071
Estimated ROW Cost:	TBD*	**Estimated CST Time:**	18 months
Rationale: This alternative is not preferred because of the higher project cost due to the construction of the realigned SR 82. This alternative will also increase the project limits by approximately 0.41 miles, which increases the amount of right-of-way required, property impacts, environmental impacts, construction time, and will require relocating overhead utilities. This alternative also has impacts to a potentially eligible historic property and has one displacement. Estimated Utility Cost = $66,000			

***To be updated upon receipt of estimate from GDOT Office of ROW.

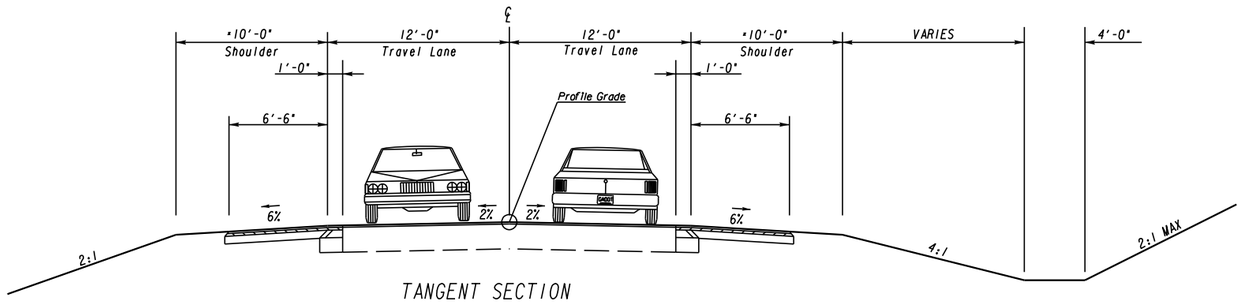
aT

Comments/Additional Information: None

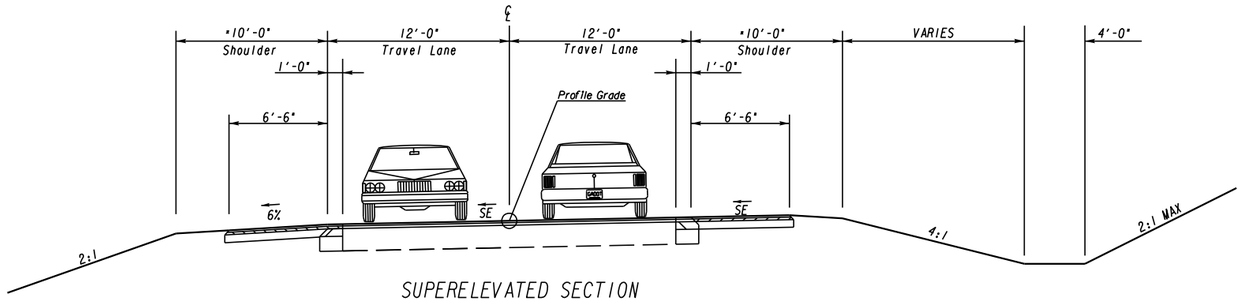
LIST OF ATTACHMENTS/SUPPORTING DATA

1. ~~Bridge~~ Typical Sections
2. Concept Layout
3. Detour Map
4. Cost Estimate
    a. Programmed Cost
    b. Construction Cost Estimate
    c. Utility Cost Estimate
    d. Preliminary ROW Cost Estimate Summary (Requested November 8, 2017)
5. Approved Bridge Traffic Memo (February 20, 2017)
6. Concept Level Hydrology Study for MS4 Permit
    a. MS4 Concept Report Summary
    b. MS4 Concept Level Design Spreadsheet
    c. MS4 Drainage Area Layout
7. Concept Team Meeting Minutes
8. Bridge Inventory Data Listing

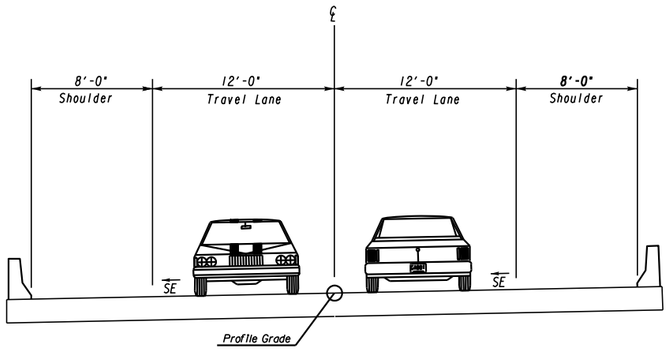
(*) REFER TO GDOT DETAIL S-4 WHERE GUARDRAIL IS SHOWN ON PLAN VIEW.



TANGENT SECTION



SUPERELEVATED SECTION



BRIDGE TYPICAL SECTION

REVISION DATES

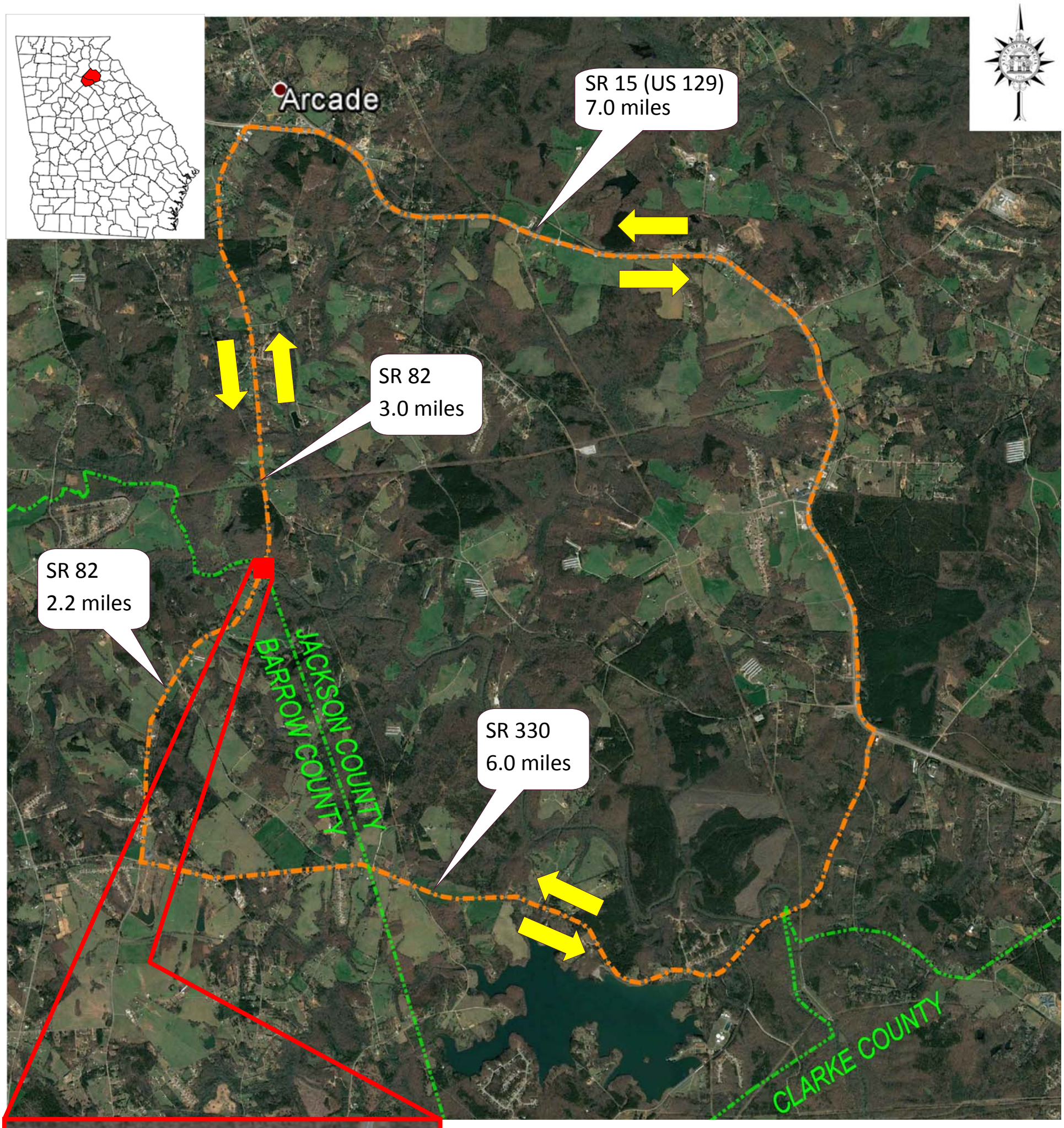
TYPICAL SECTIONS

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		05- 001
VERIFIED:		DATE:		

Attachment 2

Attachment 3

Detour Map



SR 82 over Middle Oconee River
PI No. 0013819

Legend

- Project Location
- Detour Route
- County Line

Georgia Department of Transportation

moffatt & nichol

Attachment 4

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE P.I. No. **0013819** **OFFICE** Program Delivery

PROJECT DESCRIPTION
SR 82 @ Middle Oconee River 5 Mi NW of Statham, Barrow County

DATE March 12, 2018

From: Kimberly Nesbitt, Office of Program Delivery

To: Lisa L. Myers, State Project Review Engineer
via Email Mailbox: **CostEstimatesandUpdates@dot.ga.gov**

Subject: REVISIONS TO PROGRAMMED COSTS

PROJECT MANAGER Jeff Henry

MGMT LET DATE 3/15/2020

MGMT ROW DATE 3/15/2019

PROGRAMMED COSTS (TPro W/OUT INFLATION)			**LAST ESTIMATE UPDATE**	
CONSTRUCTION	**$**	2,800,000.00	DATE	3/7/2016
RIGHT OF WAY	**$**	250,000.00	DATE	3/7/2016
UTILITIES	**$**	0.00	DATE	

REVISED COST ESTIMATES		
CONSTRUCTION*	**$**	3,374,319.12
RIGHT OF WAY	**$**	TBD
UTILITIES	**$**	44,000.00

*Cost Contains **10** % Contingency

REASONS FOR COST INCREASE AND CONTINGENCY JUSTIFICATION:
The difference in cost is due to increased bridge construction unit costs and bridge demolition unit costs.

CONTINGENCY SUMMARY

A.	**CONSTRUCTION COST ESTIMATE:**	$ 2,916,820.29	Base Estimate From CES	
B.	**ENGINEERING AND INSPECTION (E & I):**	$ 145,841.01	Base Estimate (A) x	5 %
C.	**CONTINGENCY:**	$ 306,266.13	Base Estimate (A) + E & I (B) x	10 %
			See % Table in "Risk Based Cost Estimation" Memo	
D.	**TOTAL LIQUID AC ADJUSTMENT:**	$ 5,391.69	Total From Liquid AC Spreadsheet	
E.	**CONSTRUCTION TOTAL:**	$ **3,374,319.12**	(A + B + C + D = E)	

REIMBURSABLE UTILTY COSTS

UTILITY OWNER	REIMBURSABLE COST
Jackson EMC	$ 44,000.00
AT & T	$ -
Barrow County WSA	$ -
Comcast CATV	$ -
Atlanta Gas Light	$ -
TOTAL	**$ 44,000.00**

ATTACHMENTS: (File Copy in the Project Cost Estimate Folder)

Detailed Cost Estimate Printout From TRAQS
Liquid AC Adjustment Spreadsheet

Consultant Validation of Final QC/QA for Construction Cost Estimate Used in This Revision To Programmed Costs

COMPANY NAME:	Moffatt & Nichol

VALIDATION OF FINAL QC/QA

PRINTED NAME:	R. Christopher Marsengill, PE, PTOE
TITLE:	Project Manager
SIGNATURE:	
DATE:	3/12/2018

PROJ. NO.	N/A	CALL NO.	0/00/2016
P.I. NO.	0013819		
DATE	3/12/2018		

INDEX (TYPE)	DATE	INDEX
REG. UNLEADED	Mar-18	$ 2.431
DIESEL		$ 2.910
LIQUID AC		$ 416.00

Link to AC Index:
http://www.dot.ga.gov/PS/Materials/AsphaltFuelIndex

LIQUID AC ADJUSTMENTS

PA=[((APM-APL)/APL)]xTMTxAPL

Asphalt

Price Adjustment (PA)			**5241.6**	**$**	**5,241.60**
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	$ 665.60		
Monthly Asphalt Cement Price month project let (APL)			$ 416.00		
Total Monthly Tonnage of asphalt cement (TMT)			21		

ASPHALT	Tons	%AC	AC ton
Leveling	90	5.0%	4.5
12.5 OGFC		5.0%	0
12.5 mm	0	5.0%	0
9.5 mm SP	180	5.0%	9
25 mm SP	30	5.0%	1.5
19 mm SP	120	5.0%	6
	420		**21**

BITUMINOUS TACK COAT

Price Adjustment (PA)			**$ 150.09**	**$**	**150.09**
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	$ 665.60		
Monthly Asphalt Cement Price month project let (APL)			$ 416.00		
Total Monthly Tonnage of asphalt cement (TMT)			0.601314129		

Bitum Tack Gals	gals/ton	tons
140	232.8234	0.60131413

BITUMINOUS TACK COAT (surface treatment)

Price Adjustment (PA)			**0**	**$**	**-**
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	$ 665.60		
Monthly Asphalt Cement Price month project let (APL)			$ 416.00		
Total Monthly Tonnage of asphalt cement (TMT)			0		

Bitum Tack	SY	Gals/SY	Gals	gals/ton	tons
Single Surf. Trmt.		0.20	0	232.8234	0
Double Surf.Trmt.		0.44	0	232.8234	0
Triple Surf. Trmt		0.71	0	232.8234	0
					0

TOTAL LIQUID AC ADJUSTMENT	**$**	**5,391.69**

STATE HIGHWAY AGENCY

DATE : 03/22/2018
PAGE : 1

JOB DETAIL ESTIMATE

JOB NUMBER : 0013819 SPEC YEAR: 13
DESCRIPTION: SR 82 AT MIDDLE OCONEE RIVER

ITEMS FOR JOB 0013819

LINE	ITEM	ALT	UNITS	DESCRIPTION	QUANTITY	PRICE	AMOUNT
0005	150-1000	LS		TRAFFIC CONTROL - 0013819	1.000	105000.00	105000.00
0010	153-1300	EA		FIELD ENGINEERS OFFICE TP 3	1.000	105934.31	105934.32
0015	163-0232	AC		TEMPORARY GRASSING	3.000	688.92	2066.77
0020	163-0240	TN		MULCH	16.000	319.80	5116.82
0025	163-0300	EA		CONSTRUCTION EXIT	2.000	1739.46	3478.93
0030	163-0503	EA		CONSTR AND REMOVE SILT CONTROL GATE,TP 3	2.000	548.65	1097.30
0035	163-0527	EA		CNST/REM RIP RAP CKDM,STN P RIPRAP/SN BG	15.000	408.30	6124.54
0040	163-0550	EA		CONS & REM INLET SEDIMENT TRAP	2.000	222.17	444.35
0045	165-0030	LF		MAINT OF TEMP SILT FENCE, TP C	1550.000	0.93	1441.64
0050	165-0041	LF		MAINT OF CHECK DAMS - ALL TYPES	150.000	9.56	1435.08
0055	165-0087	EA		MAINT OF SILT CONTROL GATE, TP 3	2.000	142.48	284.97
0060	165-0101	EA		MAINT OF CONST EXIT	2.000	634.56	1269.14
0065	165-0105	EA		MAINT OF INLET SEDIMENT TRAP	2.000	70.75	141.51
0070	167-1000	EA		WATER QUALITY MONITORING AND SAMPLING	4.000	402.88	1611.54
0075	167-1500	MO		WATER QUALITY INSPECTIONS	18.000	848.83	15279.06
0080	171-0030	LF		TEMPORARY SILT FENCE, TYPE C	3100.000	3.86	11996.04
0085	210-0100	LS		GRADING COMPLETE - 0013819	1.000	150000.00	150000.00
0090	310-1101	TN		GR AGGR BASE CRS, INCL MATL	550.000	36.86	20278.32
0095	402-1812	TN		RECYL AC LEVELING,INC BM&HL	90.000	113.59	10223.61
0100	402-3121	TN		RECYL AC 25MM SP,GP1/2,BM&HL	30.000	114.47	3434.38
0105	402-3103	TN		REC AC 9.5 MM SP,TPII,GP2, INCL BM & HL	220.000	94.23	20732.18
0110	402-3190	TN		RECYL AC 19 MM SP,GP 1 OR 2 ,INC BM&HL	170.000	98.93	16819.60
0115	413-0750	GL		TACK COAT	160.000	2.27	363.20
0120	432-5010	SY		MILL ASPH CONC PVMT,VARB DEPTH	440.000	12.62	5555.58
0125	433-1000	SY		REINF CONC APPROACH SLAB	267.000	188.34	50288.74
0128	441-0301	EA		CONC SPILLWAY, TP 1	2.000	2145.04	4290.10
0129	540-1101	LS		REM OF EX BR, STA NO - 0013819	1.000	362880.00	362880.00
0130	543-9000	LS		CONSTR OF BRIDGE COMPLETE - 0013819	1.000	1730000.00	1730000.00
0135	550-1180	LF		STM DR PIPE 18,H 1-10	200.000	55.82	11165.47
0145	550-4218	EA		FLARED END SECT 18 IN, ST DR	2.000	647.65	1295.31
0154	576-1010	LF		SLOPE DRAIN PIPE, 10 IN	130.000	29.73	3865.50
0155	603-2181	SY		STN DUMPED RIP RAP, TP 3, 18	200.000	48.81	9762.81
0160	603-2024	SY		STN DUMPED RIP RAP, TP 1, 24	2200.000	51.28	112831.22
0165	603-7000	SY		PLASTIC FILTER FABRIC	1700.000	4.29	7301.96
0180	632-0003	EA		CHANGEABLE MESS SIGN,PORT,TP 3	2.000	7996.10	15992.22
0185	634-1200	EA		RIGHT OF WAY MARKERS	15.000	131.98	1979.76
0190	636-1033	SF		HWY SIGNS, TP1MAT,REFL SH TP 9	24.000	17.93	430.41
0195	636-1036	SF		HWY SGN,TP1MAT,REFL SH TP 11	21.000	18.11	380.31

0200	636-2070	LF	GALV STEEL POSTS, TP 7	93.000	9.55	888.98
0205	636-2080	LF	GALV STEEL POSTS, TP 8	31.000	12.41	384.97
0210	641-1100	LF	GUARDRAIL, TP T	66.000	77.99	5147.39
0215	641-1200	LF	GUARDRAIL, TP W	790.000	19.48	15395.98
0225	641-5020	EA	GUARDRL, ANCHOR, TP 12B,31 IN, FLR, E/A	4.000	2878.58	11514.32
0230	643-8200	LF	BARRIER FENCE (ORANGE), 4 FT	1250.000	2.61	3270.54
0235	653-1501	LF	THERMO SOLID TRAF ST 5 IN, WHI	950.000	1.09	1040.72
0239	653-1502	LF	THERMO SOLID TRAF ST, 5 IN YEL	800.000	1.10	881.45
0248	653-3502	GLF	THERMO SKIP TRAF ST, 5 IN, YEL	135.000	0.73	99.39
0249	654-1001	EA	RAISED PVMT MARKERS TP 1	28.000	6.23	174.56
0250	657-1085	LF	PRF PL SD PVT MKG,8,B/W,TP PB	650.000	7.86	5109.44
0260	657-6085	LF	PRF PL SD PVMT MKG,8,B/Y,TPPB	650.000	7.38	4803.06
0265	668-2105	EA	DROP INLET, GP 1, SPCL DES	2.000	3140.41	6280.82
0270	700-6910	AC	PERMANENT GRASSING	3.000	1378.82	4136.48
0275	700-7000	TN	AGRICULTURAL LIME	16.000	102.66	1642.72
0280	700-8000	TN	FERTILIZER MIXED GRADE	4.000	623.87	2495.50
0285	700-8100	LB	FERTILIZER NITROGEN CONTENT	245.000	2.84	696.89
0290	716-2000	SY	EROSION CONTROL MATS, SLOPES	2477.000	1.14	2833.44
0295	999-3156	LF	ENHANCED DRY SWALE	200.000	314.00	62800.00

ESTIMATED COST:	2932189.34
CONTINGENCY PERCENT (0.0):	0.00
ESTIMATED TOTAL:	2932189.34

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE

Project No: **n/a** Office **GAINESVILLE**
County **Barrow/Jackson** Date: **January 29, 2018**
P.I.# **0013819**

Description: ***SR 82 @ Middle Oconee River 5 Miles NE of Statatham***

FROM Robby Oliver, District Utilities Manager

TO Jeff Henry, Project Manager

SUBJECT **PRELIMINARY UTILITY COST ESTIMATE**

A review of utilities located on the above referenced project has been conducted without a design concept. Listed below is a breakdown of the anticipated reimbursable and non-reimbursable cost.

Utility Owner	Reimbursable	Non-Reimbursable	Estimate Based on
Atlanta Gas Light		$76,500.00	Site Visit / Available Drawings
AT & T		$14,400.00	Site Visit / Available Drawings
Barrow Co WSA **			Site Visit / Available Drawings
Comcast CATV		$14,400.00	Site Visit / Available Drawings
Jackson EMC	$44,000.00	$44,000.00	Site Visit / Available Drawings
			Site Visit / Available Drawings
			Site Visit / Available Drawings
			Site Visit / Available Drawings
			Site Visit / Available Drawings
			Site Visit / Available Drawings
Total 100.00%	$44,000.00	$149,300.00	
Department Responsibility 100.00%	$44,000.00		
Local Sponsor Responsibility 0.00%	$0.00		PFA Dated N/A with N/A

** Indicates Potential Utility Aid Request from Local Gov't

Estimate is based on the best available information at the current stage, unforeseen prior rights information may be provided by the Utility Company at a later date that could cause some non-reimbursable costs to shift to the reimbursable cost column.

If additional information is needed, please contact Robby Oliver at 770-531-5772.

cc: Patrick Allen, State Utilities Administrator
Yulonda Pride-Foster, State Utilities Preconstruction Manager
Chris Marsengill (Moffatt & Nichol), Designer
Brandon Kirby, District Preconstruction Engineer
Shannon Giles, Area Manager
File

Original Version: May 24, 2013

Concept Utility Report

Project Number: 0013819 **District:** 1

County: Barrow/Jackson **Prepared by:** Terri Holbrook

P.I. # 0013819 **Date:** January 29, 2018

Project Description: SR 82@ Middle Oconee River

The information provided herein has been gathered from Georgia811and/or field visits and serves as an estimate. Nothing contained in this report is to be used as a substitute for 1st Submission or SUE.

Are SUE services recommended? Yes Level: ☒A ☐B ☐C ☐D

Public Interest Determination (PID): ☐ Automatic ☐ Mandatory ☐ Consideration

☒No Use ☐ Exempt

Is a separate utility funding phase recommended? Yes-reimbursable

Existing Facilities: S E E A T T A C H E D

Potential Project (Schedule/Budget) Impacts: N/A

Capital Improvement Projects (Utilities) Anticipated in the Area: NONE ANTICIPATED

Project Specific Recommendations for Avoidance/Mitigation: N/A

Right of Way Coordination: INCLUDE UTILITY CLAUSE IN PERMAMENT EASEMENT

Environmental Coordination: N/A

Additional Remarks: N/A

Original Version: May 24, 2013

The following utilities have facilities within the project limits. Utilities have been located using Georgia811 and/or field visits.

Existing Facilities/Appurtenances	Approximate Limits	Reimbursable cost	Non-reimbursable cost	Facilities to Avoid	Facility Retention Recommend	Comments
ATLANTA GAS LIGHT	ENTIRE PROJECT		**$76500.00**			
AT&T	ENTIRE PROJECT		**$14400.00**			
**BARROW CO WSA	ENTIRE PROJECT		**$0.00**			
COMCAST CATV	ENTIRE PROJECT		**$14400.00**			
JACKSON EMC	ENTIRE PROJECT	**$44000.00**	**$44000.00**			

** Probable Utility Agreement Request

From: Henry, Jeff
Sent: Friday, March 16, 2018 4:44 PM
To: Marsengill, Chris; Wilton, Darren; Gailey, Nina
Cc: Turner, Angela
Subject: FW: P.I. 0013819, Barrow/Jackson Counties - Estimated Mitigation Cost for Concept Report

Please see the below mitigation cost estimate for this report.

Thanks,

Jeff

From: Westberry, Lisa
Sent: Friday, March 16, 2018 3:49 PM
To: Henry, Jeff <JHenry@dot.ga.gov>
Cc: Borchardt, David J <DBorchardt@dot.ga.gov>
Subject: P.I. 0013819, Barrow/Jackson Counties - Estimated Mitigation Cost for Concept Report

Aghdas/Brad,

As requested, the estimated mitigation costs for the subject project is **$30,000**. This was based on a review of aerial photography, NWI mapping, and NRCS soil surveys and not an actual field verification. The total cost of mitigation credits could remain the same or be higher once the ecology field survey is complete.

If you should have any questions or need any additional information, please do not hesitate to contact me.

Thank you,

Lisa Westberry | Special Projects Coordinator | **Office of Environmental Services** | 600 West Peachtree Street, NW | **Atlanta, GA 30308** | 404-631-1772

Attachment 5

Department of Transportation
State of Georgia

INTERDEPARTMENT CORRESPONDENCE

FILE Barrow & Jackson County
P.I. # 0013819

OFFICE Planning

DATE February 20, 2018

FROM Cynthia L. VanDyke, State Transportation Planning Administrator

TO Kimberly Nesbitt, State Program Delivery Administrator
Attention: Jeff Henry

SUBJECT **Design Traffic Forecasts** for SR 82 at Middle Oconee River 5 miles NE of Stathum

Per request, we have reviewed the consultant's design traffic forecasts for the above project. Based on the information furnished, we find the design traffic forecasts to be satisfactory, and the design traffic forecasting task to be complete for the above project. The reviewed and approved design traffic forecasts for the above project are as follows:

BRIDGE ID # 013-0010-0

	2017 (Existing Year)	2022 (Base Year)	2024 (Base Year +2)	2042 (Design Year)	2044 (Design Year + 2)
AADT	3100	3425	3575	5100	5300
DHV (AM/PM)	250/ 310	275/ 345	290/ 360	410/ 510	425/ 530
K% (AM/PM)	8.0%/ 10%	Same as Existing Year			
D% (AM/PM)	52%/ 42%				
24 HR. T% - S.U.	5%				
24 HR. T% - COMB.	2%				
24 HR. T% - TOTAL	7%				
T% - S.U. (AM/PM)	8.4%/ 5%				
T% - COMB. (AM/PM)	0.2%/ 1%				
T% - TOTAL (AM/PM)	8.6%/ 6%				

If you have any questions concerning this information, please contact Dan Funk at 404-631-1959.

CLV/drf

MS4 Concept Report Summary

Attach the following checklist information to the Concept Report Template:

Is there a Project Level Exclusion that applies to this project: ☒ No ☐ Yes

If yes, please indicate which of the following exclusions apply:

- ☐ Roadways that are not owned or operated (maintained) by GDOT may not require post-construction BMPs. Coordinate with the appropriate local government or entity to determine stormwater management requirements.
- ☐ The project location is not within a designated MS4 area.
- ☐ Maintenance and safety improvement projects whereby the sites are not connected and disturbs less than one acre at each individual site. This includes projects such as repaving, shoulder building, fiber optic line installation, sign addition, and sound barrier installation.
- ☐ Projects that have their environmental documents approved or right-of-way plans submitted for approval on or before June 30th, 2012.
- ☐ Road projects that disturb less than 1 acre or for site development projects that add less than 5,000 ft^2 of impervious area.

If the project has a Project Level Exclusion nothing further is needed.

If the project does not have a Project Level Exclusion use the MS4 Concept Level Design Spreadsheet to estimate the treatment volumes and flow rates, size the BMP's, complete the tables below, and include as an attachment to the Concept Report. Add additional rows, if necessary. It is understood that this information will be approximate based on available information at the time of the concept.

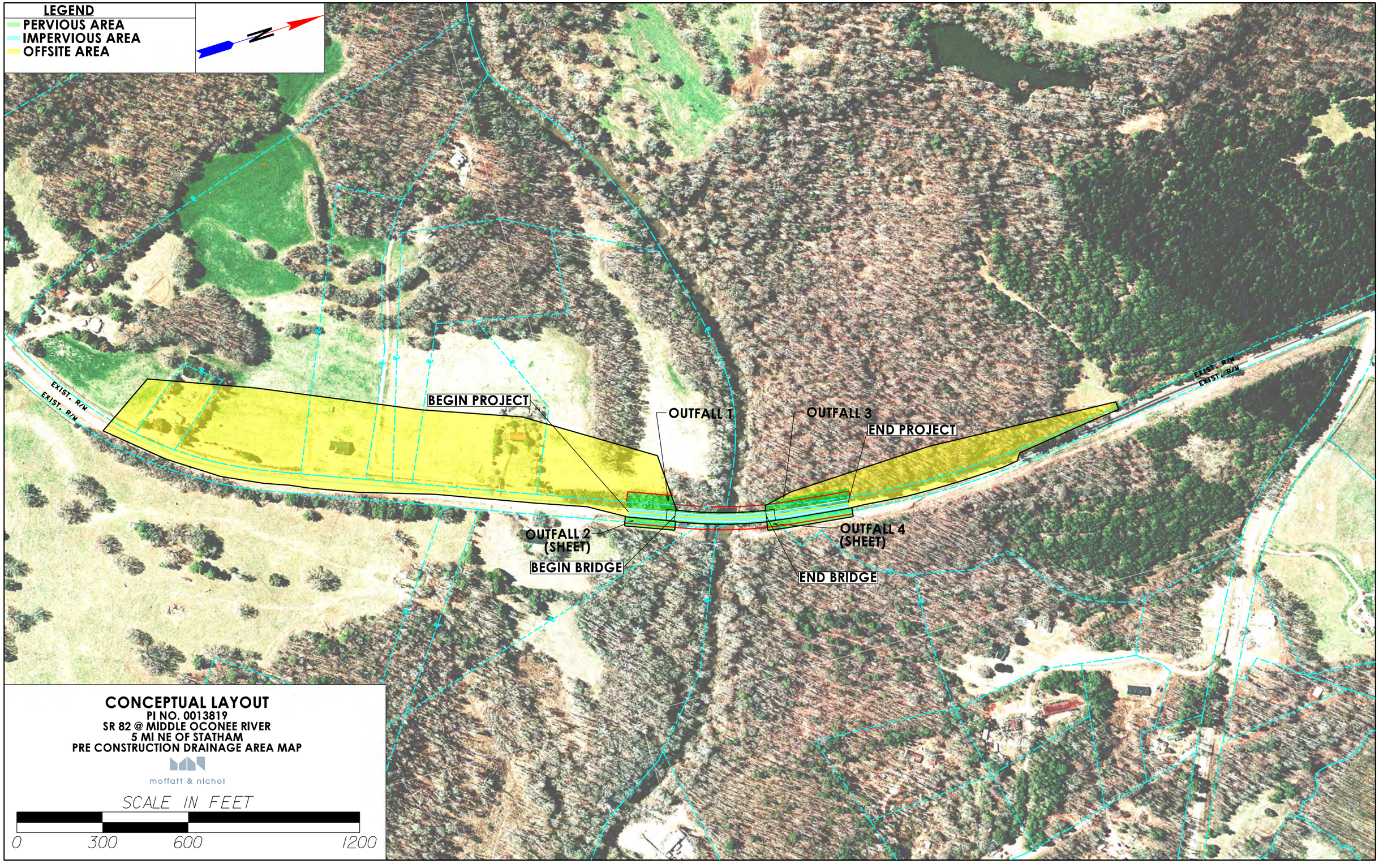
In MS4 designated areas, water quantity requirements may be waived for drainage areas that flow directly into surface waters that have a drainage area greater than 5 square miles.

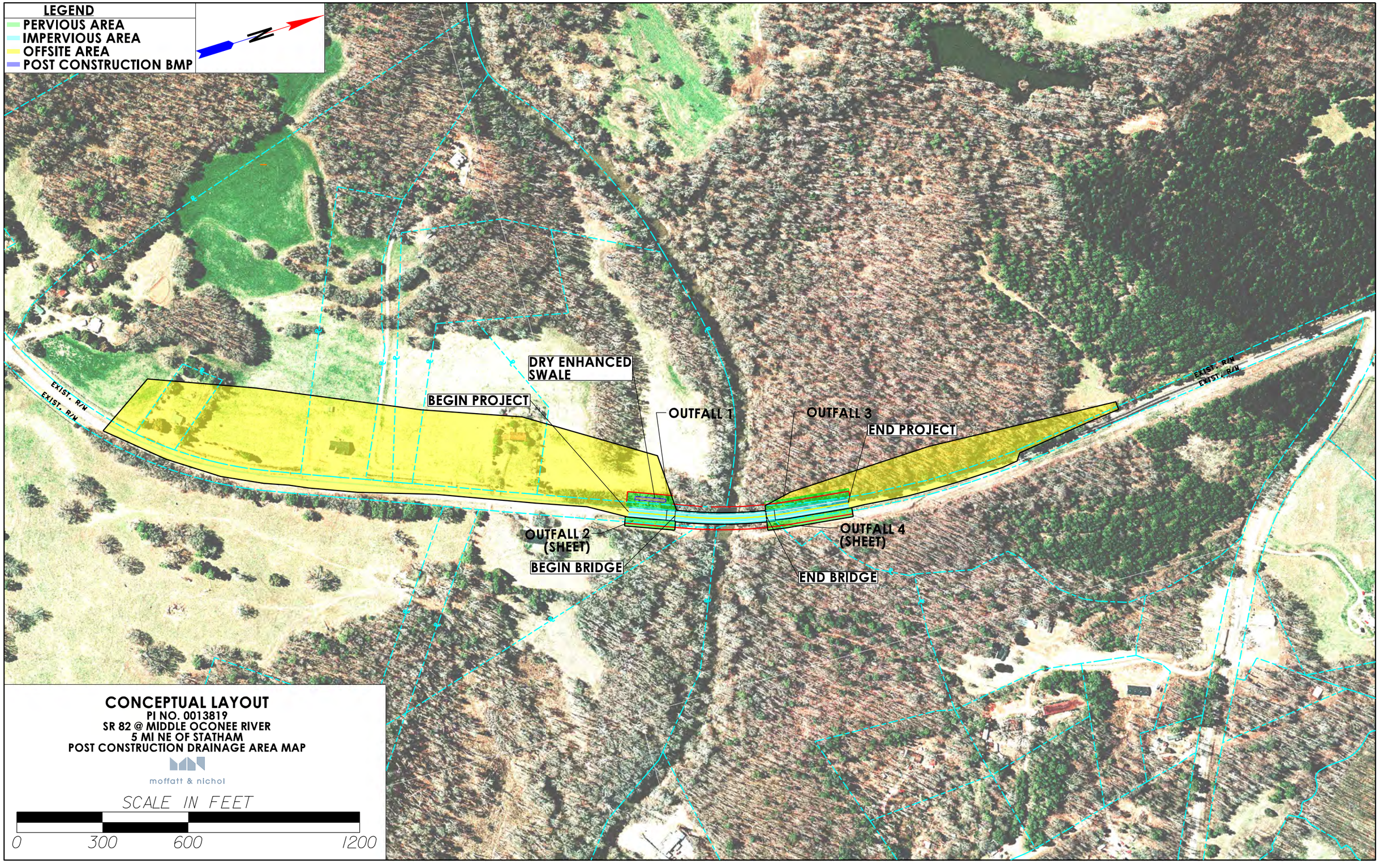
Drainage Area Summary

Outfall Area	Pre-Development			Post-Development			Water Quality Volume (Cubic Feet)	Channel Protection Volume (Cubic Feet)	Required Detention Volume (Cubic Feet)
	Tc	Weighted CN	Area (Acres)	Tc	Weighted CN	Area (Acres)			
1	16	44	12.97	16	45	12.97	588	N/A	N/A
2	5	49	0.13	5	39	0.13	N/A	N/A	N/A
3	7	41	3.10	7	43	3.10	N/A	N/A	N/A
4	5	49	0.22	5	39	0.22	N/A	N/A	N/A

BMP Selection and Feasibility Summary

	Outfall Level Exclusion?		BMP Selected	Is the BMP Feasible?		
	Y/N	Exclusion No.		Y/N	Infeasibility Criteria No.	[1]Feasibility of an Infiltration BMP
Outfall Area						
1	N	N/A	Dry Enhanced Swale	Y	N/A	N/A
2	Y	4	N/A		N/A	N/A
3	Y	6	N/A		N/A	N/A
4	Y	4	N/A		N/A	N/A


LEGEND
PERVIOUS AREA
IMPERVIOUS AREA
OFFSITE AREA
N
EXIST. R/W
EXIST. R/W
BEGIN PROJECT
OUTFALL 1
OUTFALL 3
END PROJECT
EXIST. R/W
EXIST. R/W
OUTFALL 2
(SHEET)
BEGIN BRIDGE
OUTFALL 4
(SHEET)
END BRIDGE
CONCEPTUAL LAYOUT
PI NO. 0013819
SR 82 @ MIDDLE OCONEE RIVER
5 MI NE OF STATHAM
PRE CONSTRUCTION DRAINAGE AREA MAP
moffatt & nichol
SCALE IN FEET
0
300
600
1200



CONCEPTUAL LAYOUT

PI NO. 0013819
SR 82 @ MIDDLE OCONEE RIVER
5 MI NE OF STATHAM
POST CONSTRUCTION DRAINAGE AREA MAP

moffatt & nichol

SCALE IN FEET

0 300 600 1200

moffatt & nichol

1201 Peachtree Street, NE, Suite 1106
Atlanta, GA 30361

(404) 205-8530
www.moffattnichol.com

Meeting Minutes

Date:	January 16, 2018	Time:	11:00 am
Location:	GDOT District 1 Office, Conference Room 114		
Project:	PI No. 0013819, SR 82 @ Middle Oconee River, Barrow County		
Subject:	Concept Team Meeting		
Recorded By:	Nina Gailey		

Attendees	Organization	Phone	Email
Darren Wilton	Moffatt & Nichol	404-205-8530	dwilton@moffattnichol.com
Chris Marsengill	Moffatt & Nichol	912-231-0044	cmarsengill@moffattnichol.com
Nina Gailey	Moffatt & Nichol	678-666-2709	ngailey@moffattnichol.com
Scott Caples	Moffatt & Nichol	404-205-8536	Scaples@moffattnichol.com
Robert Moreman	Moffatt & Nichol	678-666-2700	rmoreman@moffattnichol.com
Jeff Henry	AECOM/GDOT OPD	404-663-8649	jhenry@dot.ga.gov
Terri Holbrook	GDOT Utilities		teholbrook@dot.ga.gov
Michael Margut	Atkins	678-247-2590	Michael.margut@atkinsglobal.com
Jeramy Durrence	GDOT/Athens Area	404-694-6545	jdurrence@dot.ga.gov
Shannon Giles	GDOT	706-583-2644	sgiles@dot.ga.gov
Justin Lott	GDOT	770-533-8271	jlott@dot.ga.gov
Kim Coley	GDOT	770-533-8273	kcoley@dot.ga.gov
Harold D. Mull	GDOT DCE	770-533-8963	hmull@dot.ga.gov
Greg Jackson	ACC PUD	706-613-3490	Gregory.jackson@athensclarkecounty.com
Brandon Kirby	GDOT	678-343-0816	bkirby@dot.ga.gov
Doris Acquaviva	GDOT	617-716-9156	dacquaviva@dot.ga.gov
Jonathan Dills	GDOT R/W	770-533-8288	jdills@dot.ga.gov
Shane Giles	GDOT Traffic Ops	770-533-8491	shgiles@dot.ga.gov
Bradley Daugherty (phone)	GDOT Ecology		bdaugherty@dot.ga.gov
Carol Kalafut (phone)	GDOT Bridge	404-631-1882	ckalafut@dot.ga.gov
Spencer Pucci (phone)	GDOT Air and Noise	404-631-1164	Spucci@dot.ga.gov
Mike Brown	Jackson EMC	706-367-6202	mbrown@jacksonemc.com
Harry Warren (phone)	Windstream		

- Jeff Henry, the GDOT Project Manager, began the meeting with introductions of all meeting attendees and everyone's role in the project and a brief description of the project. He then turned the meeting over to Darren Wilton to discuss the project.

- A meeting agenda was provided to attendees and Darren utilized a Powerpoint presentation during the meeting (see attached Powerpoint).
- Project Background was discussed including the location, project purpose and need, bridge condition, age, and pictures of the existing bridge were included. The existing roadway is a two-lane rural major collector with two 11-foot travel lanes and 2-foot shoulders.
    - Darren stated that there is no expected change in profile, but it will not be determined until a hydraulic model has been run.
        - Robert stated that this bridge is not in a regulatory floodway.
    - Darren noted that the existing bridge is along a curve and in full superelevation.
    - Darren noted that there is an existing stream gage attached to the east side of the bridge that will need to be removed and replaced and Robert stated that this will need to be coordinated with USGS.
        - Chris asked if we need to consider the weight of the gage in the design.
            - It was mentioned that we will need to add notes and make it clear in plans that contractor must coordinate with USGS on removal and installation. See PI 0007169 for example.
    - Darren noted that there are existing utility poles along the east side of SR 82 (owned by Jackson EMC) and an access road, probably used for local fishing. There is also a gas line on the east side of the bridge.
- Darren discussed the Existing, Open Year and Design Year volumes and truck percentages.
- Environmental considerations were discussed, including Ecology, Aquatic survey and historic resources. There are two historic resources to be evaluated, including the bridge itself.
- The proposed design parameters were discussed. There will be two 12-foot lanes in each direction with 8-foot paved shoulders across the bridge and 10-foot (6.5-foot paved) shoulders along the road.
- The proposed roadway and bridge typical sections were discussed.
    - Darren noted that there are two different bridge typical sections (one in superelevation and one in normal crown), due to different alternatives.
- Three alternatives were discussed for the project, which include:
    - Alternative 1 - Off-site detour with a net length of 7.8 miles, which is reasonable due to low volume. This alternative was preferred by the group due to improved constructability and lower project cost.
    - Alternative 2 - Construct permanent bridge west of existing bridge.
        - This alternative has a longer project length, increased construction duration and cost, but eliminates the horizontal curve and SE on bridge. This alternative minimizes utility impacts and maintains traffic on the existing alignment.
        - Greater environmental impacts
        - May require Air and Noise study
    - Alternative 3 - Construct permanent bridge east of existing bridge.
        - Impacts to utility poles

  - Increased project length, construction duration and cost
  - Has one potential displacement
  - Greater environmental impacts and historic property impacts
  - May require Type 1 Air and Noise study unless house is displaced
- Environmental and Permits were discussed, including NEPA, Ecology, History, Archaeology, Public Involvement and Air/Noise.
    - PIOH not required, but detour meeting will be required if Alternative 1 is chosen
    - Bradley noted on phone that this project is in a non-attainment area. Portions of Barrow County are included in ARC.
      - Moffatt & Nichol will investigate further and correct on the Concept Report.
- Existing utilities were listed and Windstream was added to the list.
    - Windstream is not located on the bridge, but has pedestals on NW side along right of way. May be impacted depending on alternative.
- Other project items were discussed, including lighting, off-site detour (detour map was reviewed), Transportation Management Plan, context sensitive solutions and MS4 (permit is required).
- Chris asked if anyone had an objection to proceeding with Alternative 1 and stated that there has been no objection to it so far in early coordination. There was no objection in the room.
- Harold mentioned that permanent riverbank stabilization will be necessary due to bent located on slope.
- Darren ended the meeting asking for everyone to please provide any final comments or questions no later than January 30, 2018.

Processed Date:8/8/2016

Parameters: Bridge Serial Num

Attachment 8
Bridge Inventory Data Listing

Structure ID:013-0010-0 **Barrow** **SUFF. RATING: 48.90**

Location & Geography

Structure ID:	013-0010-0
200 Brdge Information:	06
*6A Feature Int: *6B Critical Bridge:	MIDDLE OCONEE RIVER
*7A Route No Carried:	SR00082
*7B Facility Carried:	STATHAM ROAD
9 Location:	5 MI NE OF STATHAM
2 Dot District:	4841100000 - D1 DISTRICT ONE GAINESVILLE
207 Year Photo:	2013
*91 Inspection Frequency:	24 Date: 01/05/2016
92A Fract Crit Insp Freq:	0 Date: 02/01/1901
92B Underwater Insp Freq:	60 Date: 06/26/2013
92C Other Spc. Insp Freq:	00 Date: 02/01/1901
* 4 Place Code:	00000
*5 Inventory Route(O/U):	1
Type:	3 - State
Designation:	1- Mainline
Number:	00082
Direction:	0. Not applicable
*16 Latitude:	34.0000- 1.9116 HMMS Prefix:SR
*17 Longtitude:	83.0000- 33.7944 HMMS Suffix:00
	MP: 10.70
98 Border Bridge:	% Shared:00
99 ID Number:	000000000000000
*100 STRAHNET:	0- The Feature is not a STRAHNET route.
12 Base Highway Network:	1
13A LRS Inventory Route:	131008200
13B Sub Inventory Route:	0.00
*101 Parallel Structure:	N. No parallel structure exists
*102 Direction of Traffic:	2- Two Way
*264 Road Inventory Mile Post:	010.45
*208 Inspection Area:	Area 01 Initials: JBC
Engineer's Initials:	jpd
* Location ID No:	013-00082D-010.70E

*104 Highway System:	0- Inventory Route is not on the NHS
*26 Functional Classification:	7- Rural - Major Collector
*204 Federal Route Type:	S - Secondary. No: 00907
105 Federal Lands Highway:	0. Not applicable
*110 Truck Route:	0
206 School Bus Route:	0
217 Benchmark Elevation:	0000.00
218 Datum:	0- Not Applicable
*19 Bypass Length:	5
*20 Toll:	3- On a Free Road or Non-Highway
*21 Maintanance:	01-State Highway Agency.
*22 Owner:	01-State Highway Agency.
*31 Design Load:	2- H 15
37 Historical Significance:	5- Not eligible for the National Register of Historic Places
205 Congressional District:	007
27 Year Constructed:	1967
106 Year Reconsrtucted:	0
33 Bridge Median	0-None
34 Skew:	0
35 Structure Flared:	No
38 Navigation Control:	0- Navigation is not controlled by an Agency
213 Special Steel Design:	0- Not applicable or other
267 Type of Paint:	5- Waterborne System (Type VI or VII)
*42 Type of Service On:	1-Highway
Type of Service Under:	5-Waterway
214 Movable Bridge:	0
203 Type Bridge:	O - Multip - N. Steel-Co - M. Steel - O. Concrete
259 Pile Encasement	3
*43 Structure Type Main:	3-Steel 2-Stringer/Multi-Beam or Girder
45 No.Spans Main:	4
44 Structure Type Appr:	0- Other 0- Other
46 No Spans Appr:	0
226 Bridge Curve Horz	1 Vert: 0.00
111 Pier Protection	N - Navigation Control item coded 0, or Feature not a waterway
107 Deck Structure Type:	
108 Wearing Structure Type:	
Membrane Type:	
Deck Protection:	

Signs & Attachments

225 Expansion Joint Type:	02- Open or sealed concrete joint (silicone sealant)
242 Deck Drains:	1- Open Scuppers.
243 Parapet Location:	0- None present.
Height:	0.00
Width:	0.00
238 Curb Height:	1
Curb Material:	1- Concrete.
239 Handrail	1- Concrete. 1- Concrete.
*240 Median Barrier Rail:	0- None.
241 Bridge Median Height:	0
* Bridge Median Width:	0
230 Guardrail Loc. Dir. Rear:	3- Both sides.
Fwrd:	3- Both sides.
Oppo. Dir. Rear:	0- None.
Oppo. Fwrd:	0- None.
244 Aproach Slab	3- Forward and Rear.
224 Retaining Wall:	0- None.
233Posted Speed Limit:	55
236 Warning Sign:	1.00
234 Delineator:	1.00
235 Hazard Boards:	1
237 Utilities Gas:	00- Not Applicable
Water:	00- Not Applicable
Electric:	12- Top Right.
Telephone:	00- Not Applicable
Sewer:	00- Not Applicable
247 Lighting Street:	0
Navigation:	0
Aerial:	0- Not a
*248 County Continuity No.:	00

Bridge Inventory Data Listing

Structure ID:013-0010-0

Programming Data

201 Project No: RAB (4) SP 1760-B (2)
202 Plans Available: 4- Plans in InfoImage.
249 Prop Proj No: 000000000000000000000000
250 Approval Status: 0000
251 PI Number: 0013819
252 Contract Date: 02/01/1901
260 Seismic No: 00000
75 Type Work: 0- Not Applicable 0- Initial Inventory
94 Bridge Imp: Cost: $985
95 Roadway Imp. Cost: $98
96 Total Imp Cost: $1477
76 Imp Length: 0
97 Imp Year: 2013
114 Furure ADT: 2865 Year:2032

Hydralic Data

215Waterway Data:
High Water Elev: 0681.7 Year:1900
Flood Elev: 0000.0 Freq:00
Avg Streambed Elev: 0000.0
Drainage Area: 00340
Area of Opening: 003547
113 Scour Critical U. No Load Rating; no scour critical data entered.
216 Water Depth: 3.2 Br.Height:30.1
222 Slope Protection: 1
221Spur Dikes Rear 0 Fwd:0
219 Fender System 0- None.
220 Dolphin:
223 Culvert Cover: 000
Type: 0- Not Applicable
No. Barrels: 0
Width: 0.00 Height:0
Length: 0 Apron:0
*265 U/W Insp. Area 2 Diver:JWO
*Location ID No: 013-00082D-010.70E

Measurements:

*29 ADT 1910 Year:2012
109 %Trucks: 1
* 28 Lanes On: 2 Under:0
210 No. Tracks On: 00 Under:00
* 48 Max. Span Length 70
* 49 Structure Length: 252
51 Br. Rwdy. Width 26.00
52 Deck Width: 32.00
* 47 Tot. Horiz. Cl: 26

50 Curb / Sidewalk Width 1.80 / 1.80
32 Approach Rdwy. Width 26
*229 Shoulder Width:
Rear Lt: 2.80 Type:2 - Rt:3
Fwd. Lt: 2.70 Type:2 - Rt:3

Pavement Width:
Rear: 20.20 Type: 2- Asphalt.
20.20 Type: 2- Asphalt.
Intersaction Rear: 0 Fwd: 0
36Safety Features Br. Rail: 2- Inspected feature meets acceptable construction date standards.
Transition: 2- Inspected feature meets acceptable construction date standards.
App. G. Rail: 2- Inspected feature meets acceptable construction date standards.
App. Rail End: 1- Meets current standards
53 Minimum Cl. Over: 99'99"
Under: N- Feature not a highway or railroad. 0.00'0.00"
*228 Minimum Vertical Cl
Act. Odm Dir:: 99 ' 99"
Oppo. Dir: 99' 99"
Posted Odm. Dir: 00' 00"
Oppo. Dir: 00'00 "
55 Lateral Undercl. Rt: N- Feature not a highway or railroad. 0.00
56 Lateral Undercl. Lt: 0.00
*10 Max Min Vert Cl: 99' 99" Dir:0
39 Nav Vert Cl: 000 Horiz:0
116 Nav Vert Cl Closed: 000
245 Deck Thickness Main 6.00
Deck Thick Approach: 0.00
246 Overlay Thickness: 0.00

212 Year Last Painted: Sup:1998 Sub:1998

65 Inventory Rating Method: 1-Load Factor (LF)
63 Operating Rating Method: 1-Load Factor (LF)
66 Inventory Type: 2 - HS loading. Rating: 18
64 Operating Type: 2 - HS loading. Rating: 30
231Calculated Loads:
H-Modified: 21 0
HS-Modified: 30 0
Type 3: 33 1
Type 3s2: 40 1
Timber: 37 1
Piggyback: 40 0
261 H Inventory Rating: 19
262 H Operating Rating 31
67 Structural Evaluation: 4
58 Deck Condition: 5 - Fair Condition
59 Superstructure Condition: 5 - Fair Condition
* 227 Collision Damage:
60A Substructure Condition: 6 - Satisfactory Condition
60B Scour Condition: 7 - Good Condition
60C Underwater Condition 7 - Good Condition
71 Waterway Adequacy: 8-Equal to present desirable criteria.
61 Channel Protection Cond.: 6
68 Deck Geometry: 4
69 UnderClr. Horz/Vert: N
72 Appr. Alignment: 6-Minor reduction of vehicle operating speed required.
62 Culvert: N - Not Applicable

Posting Data

70 Bridge Posting Required 4. 0.1 - 9.9% below
41 Struct Open, Posted, CL: P. Posted for load
* 103 Temporary Structure: 0
232 Posted Loads
H-Modified: 21
HS-Modified: 00
Type 3: 33
Type 3s2: 40
Timber: 37
Piggyback 00
253 Notification Date: 02/01/1901
258 Fed Notify Date: 02/01/1901